PATENT 9588.0360

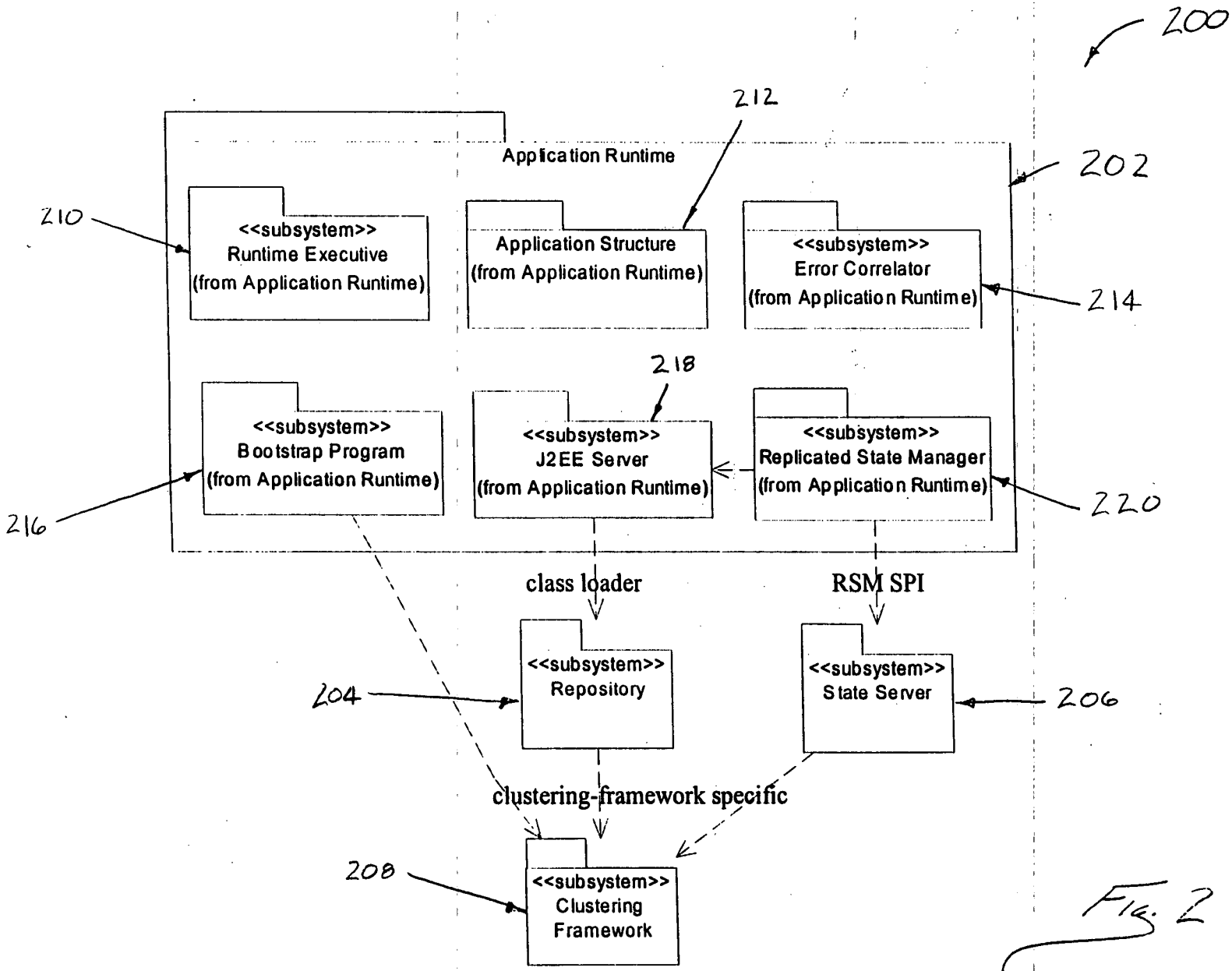

Fig. 2

FOITHO 3582860

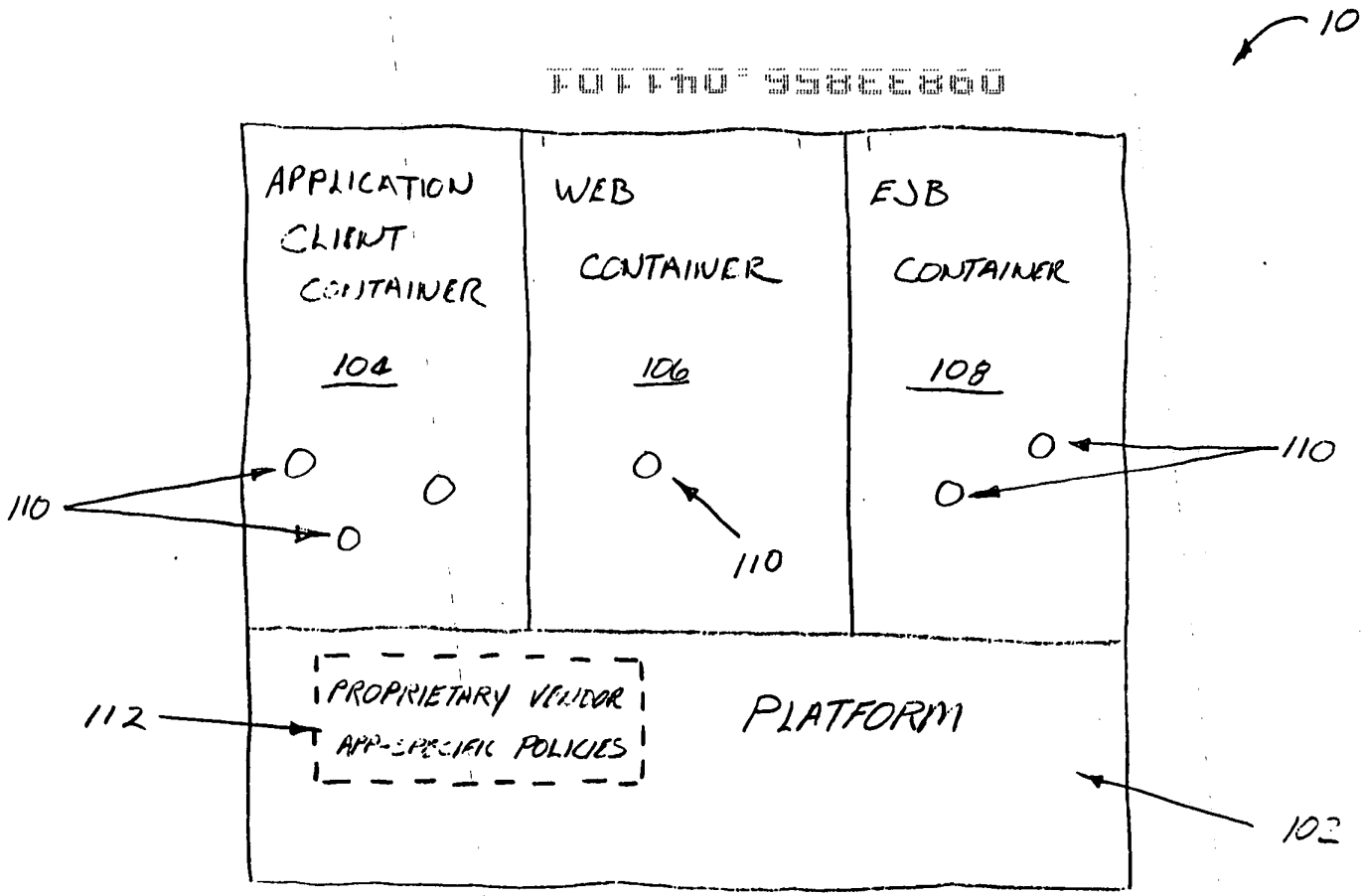

Fig. 1
(PRIOR ART)

PUPPNO: 95822860

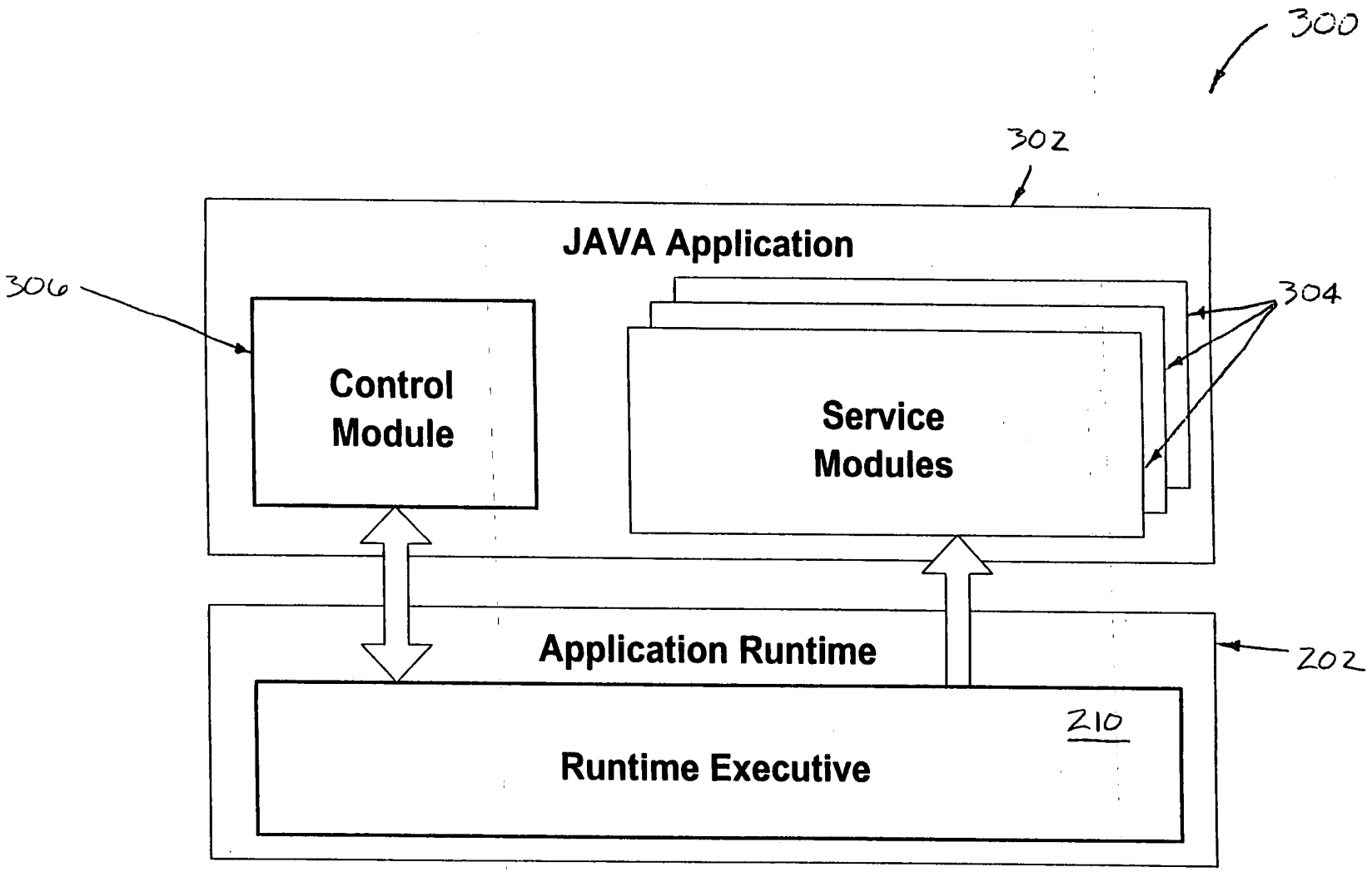

Fig 3A

EUFAIO 9586860

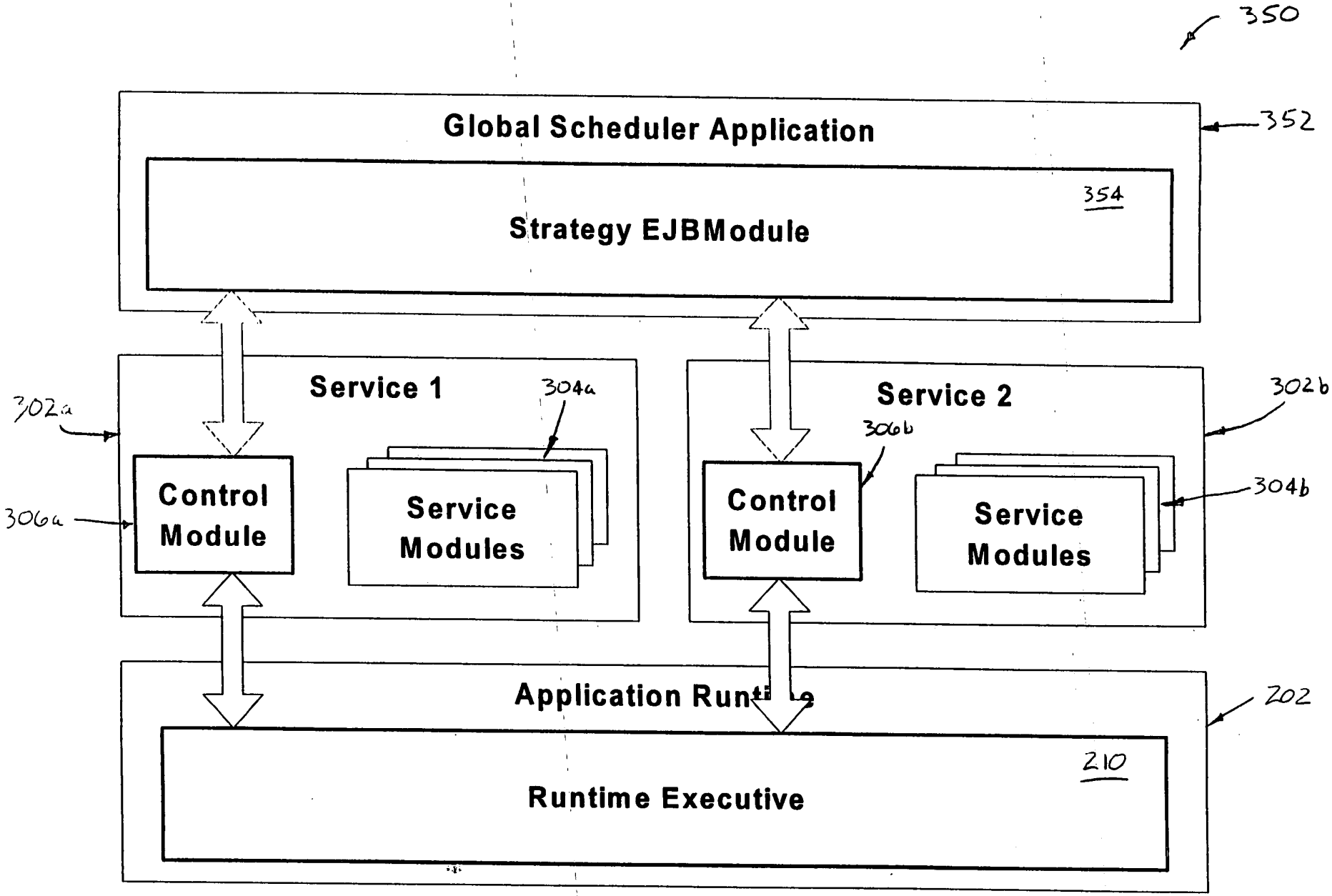

Fig 3B

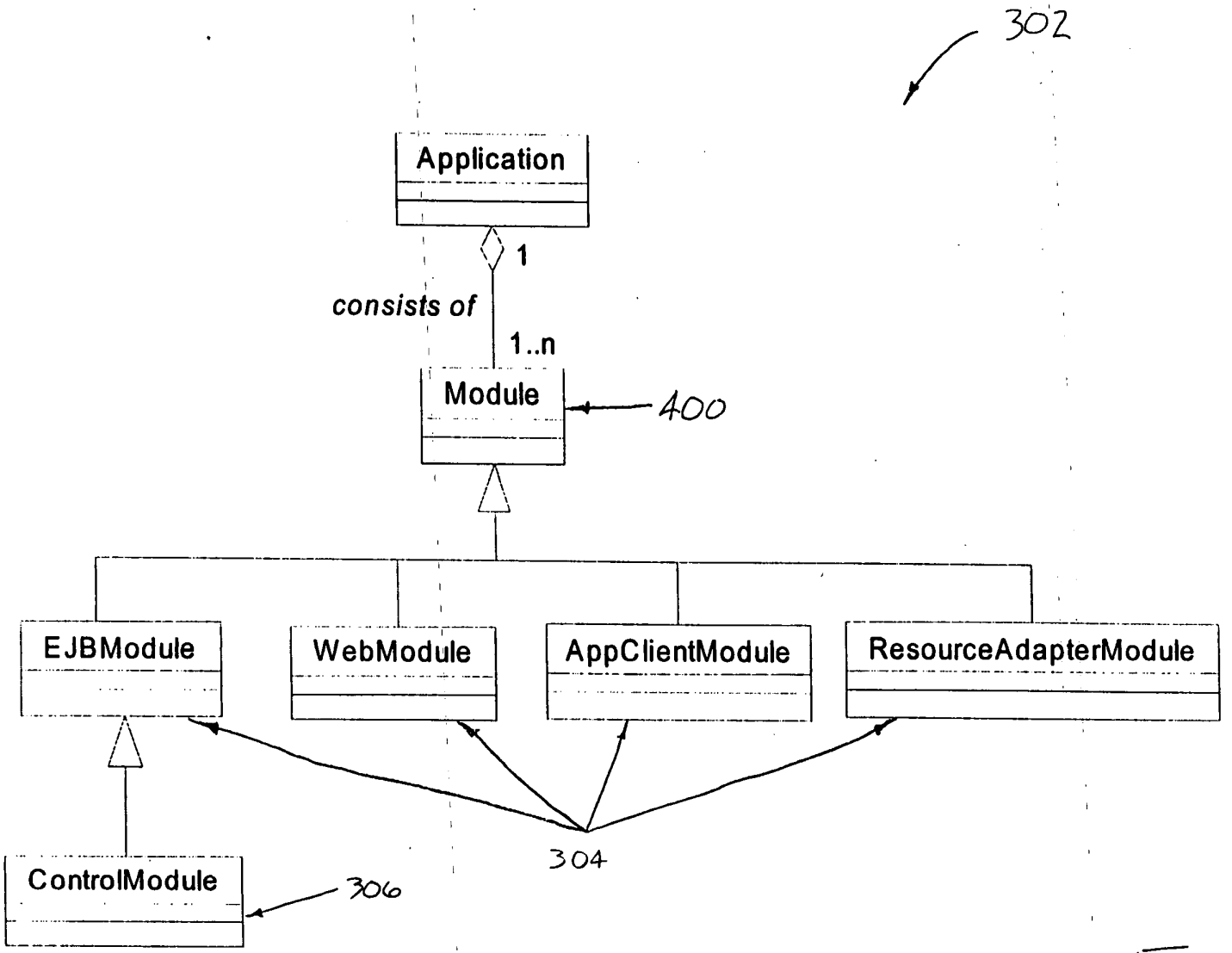
302
Application
1
consists of
1..n
Module
400
EJBModule
WebModule
AppClientModule
ResourceAdapterModule
304
ControlModule
306

Fig 4

FOTFMO 95866860

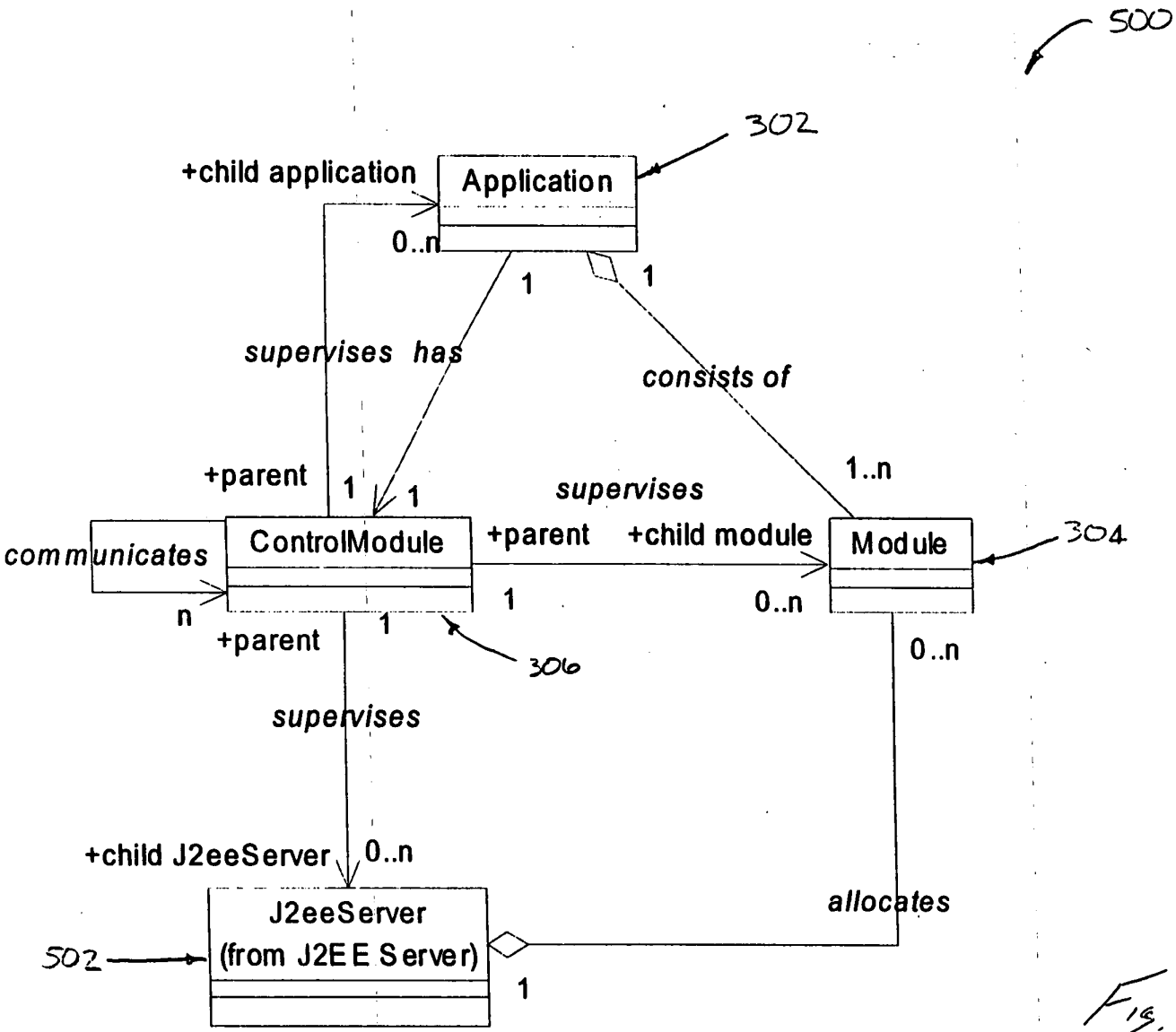

Fig. 5

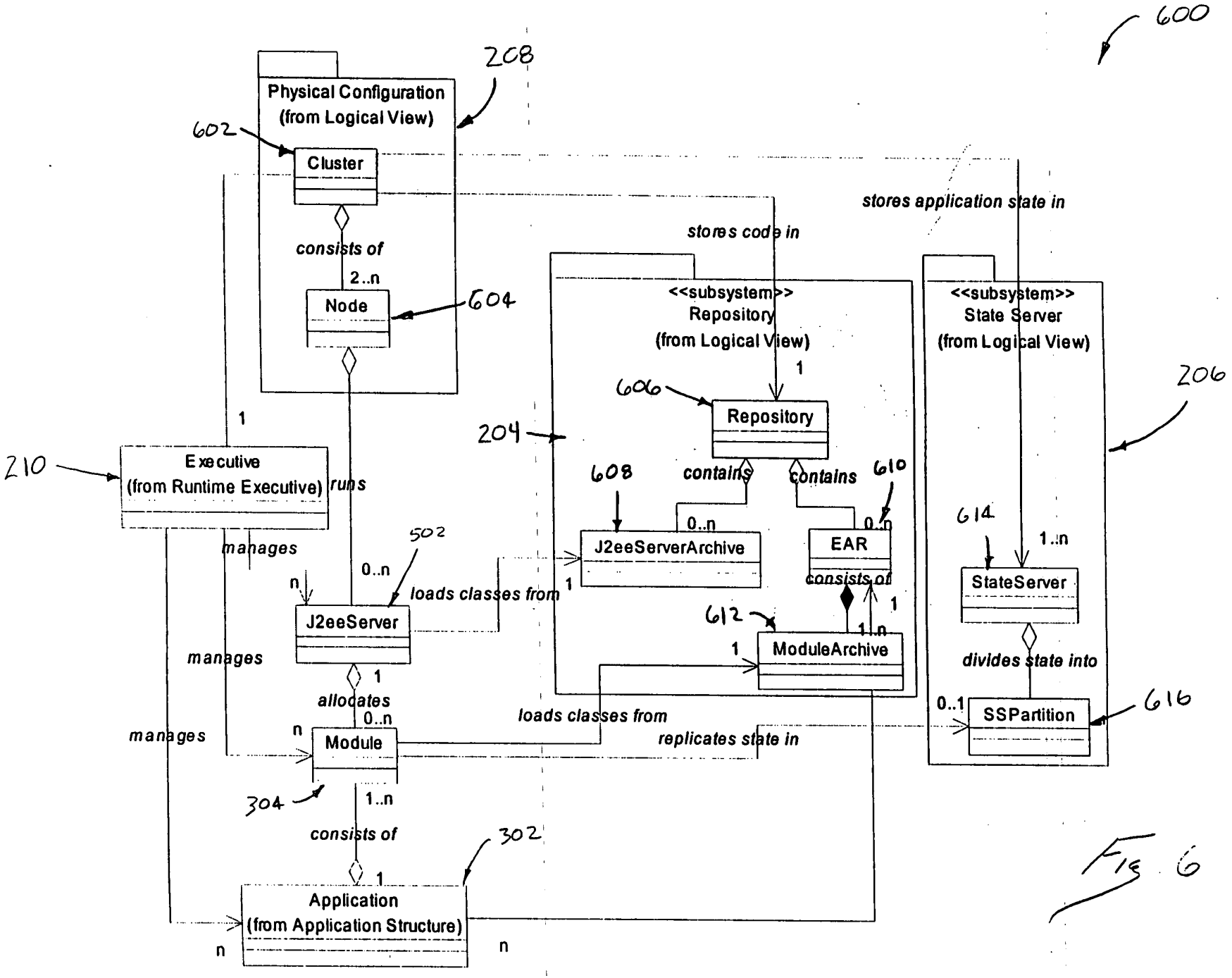
600
208
Physical Configuration
(from Logical View)
602
Cluster
consists of
2..n
Node
604
stores application state in
stores code in
<<subsystem>>
Repository
(from Logical View)
1
606
Repository
204
206
210
Executive
(from Runtime Executive)
runs
608
contains
contains
610
0..n
0..n
J2eeServerArchive
EAR
consists of
1
1..n
612
1
ModuleArchive
<<subsystem>>
State Server
(from Logical View)
614
1..n
StateServer
divides state into
0..1
SSPartition
616
manages
502
0..n
n
loads classes from
1
J2eeServer
manages
1
allocates
0..n
n
Module
loads classes from
replicates state in
manages
304
1..n
consists of
302
1
Application
(from Application Structure)
n
n

Fig. 6

EP 1 710 705 A2

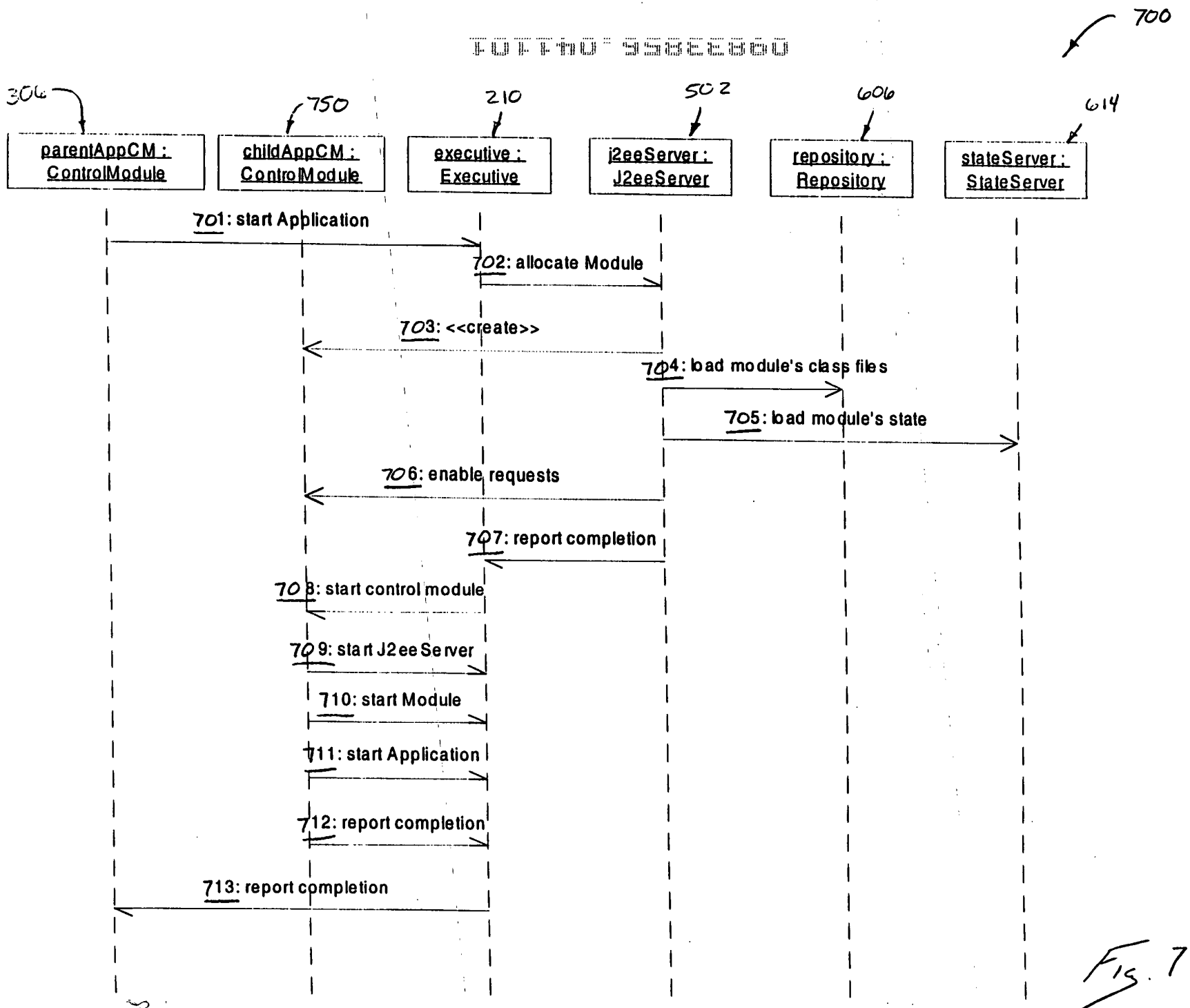

Fig. 7

FOIPNO 95866800

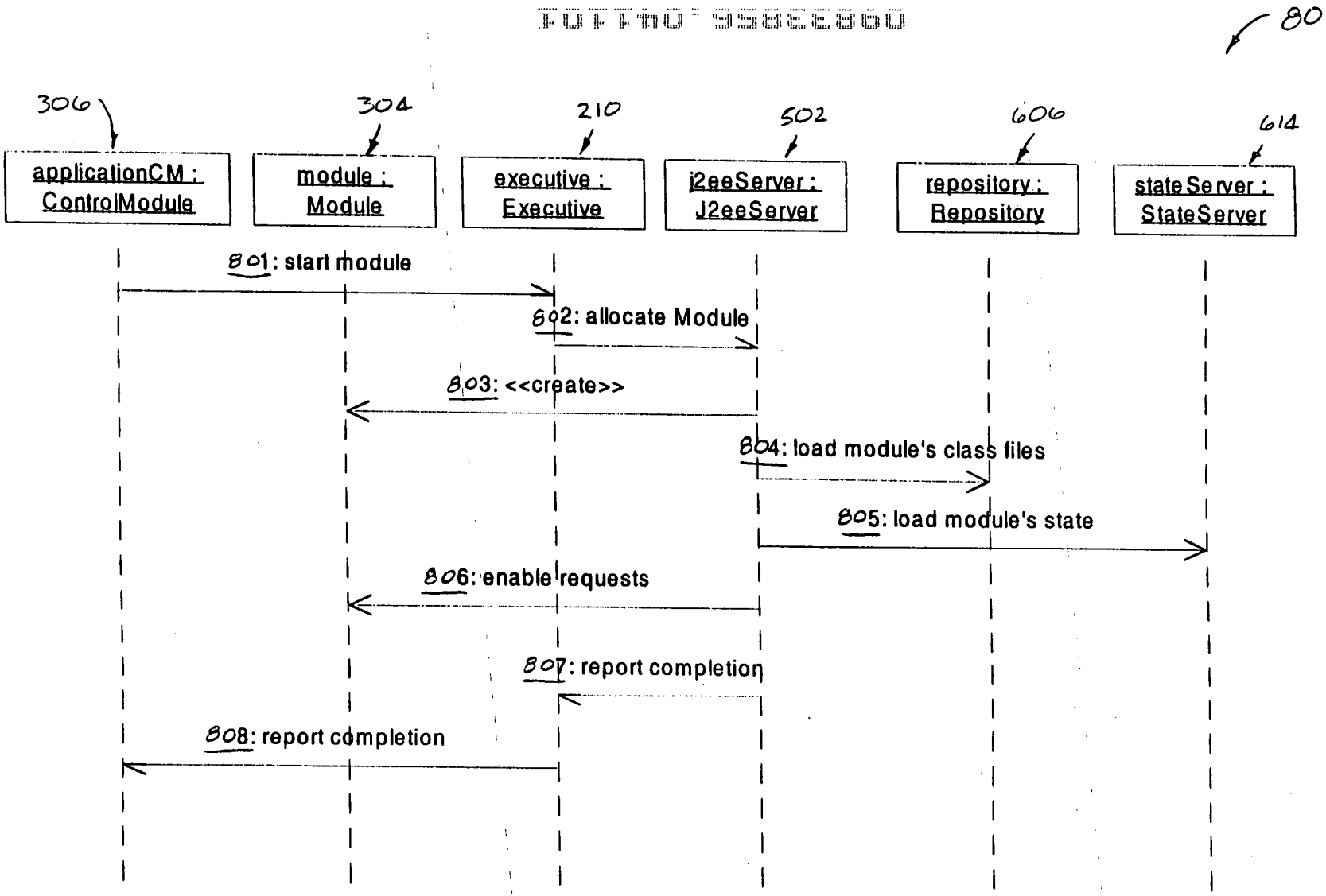

Fig 8

FOREIGN 95EEB0D

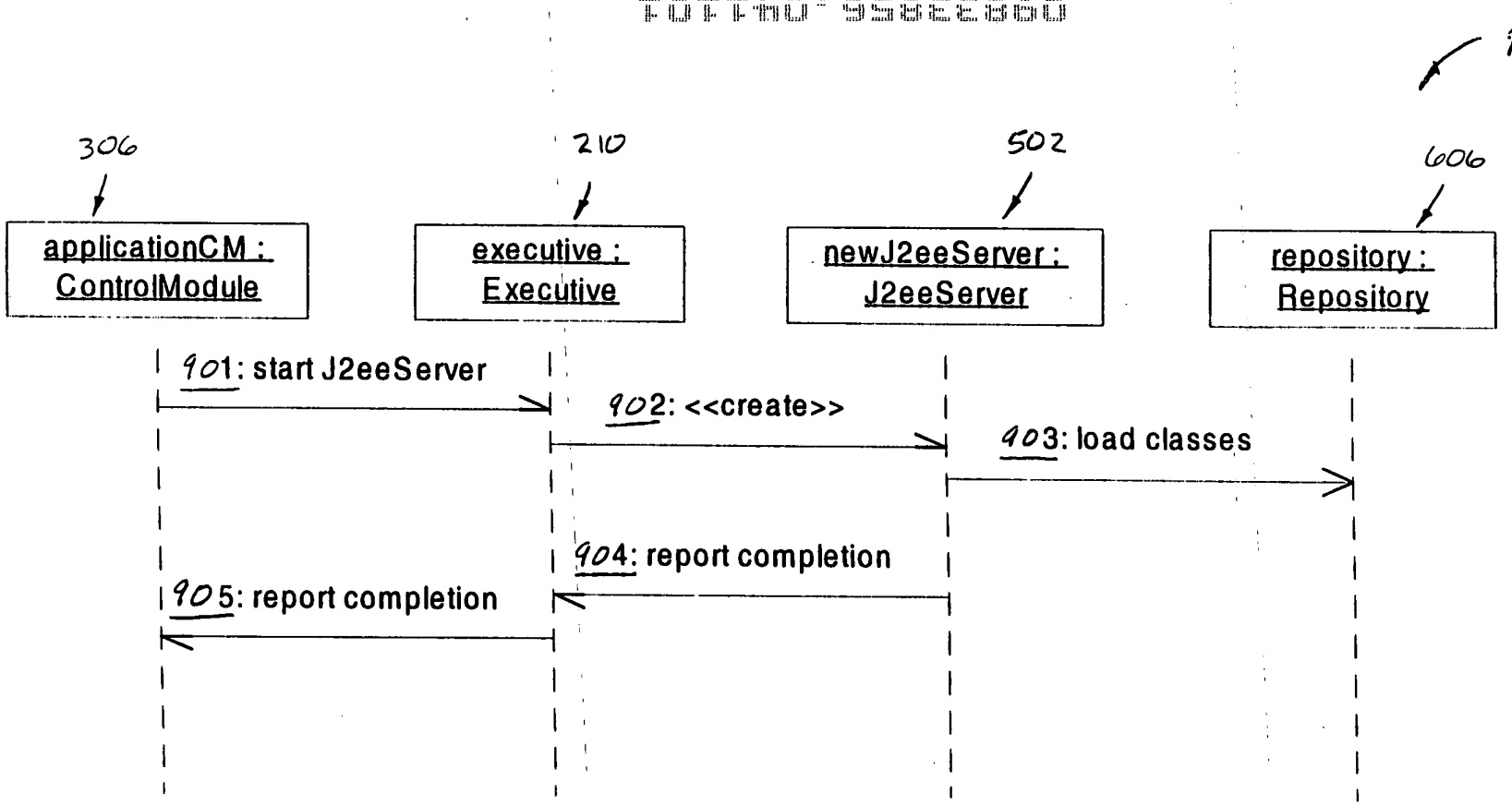

Fig 9

FUJITSU 95822800

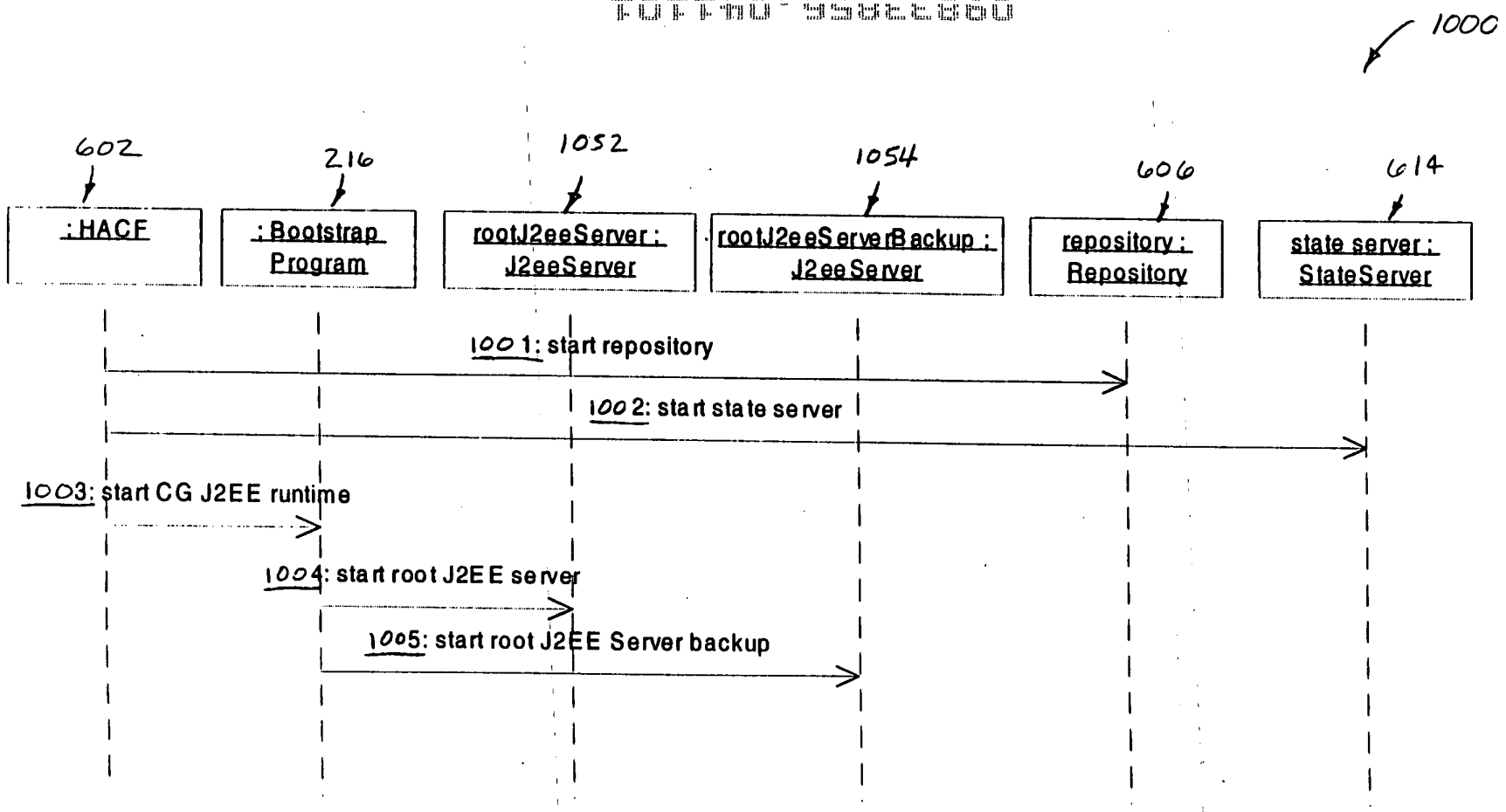

Fig 10A

FOUND 9588C800

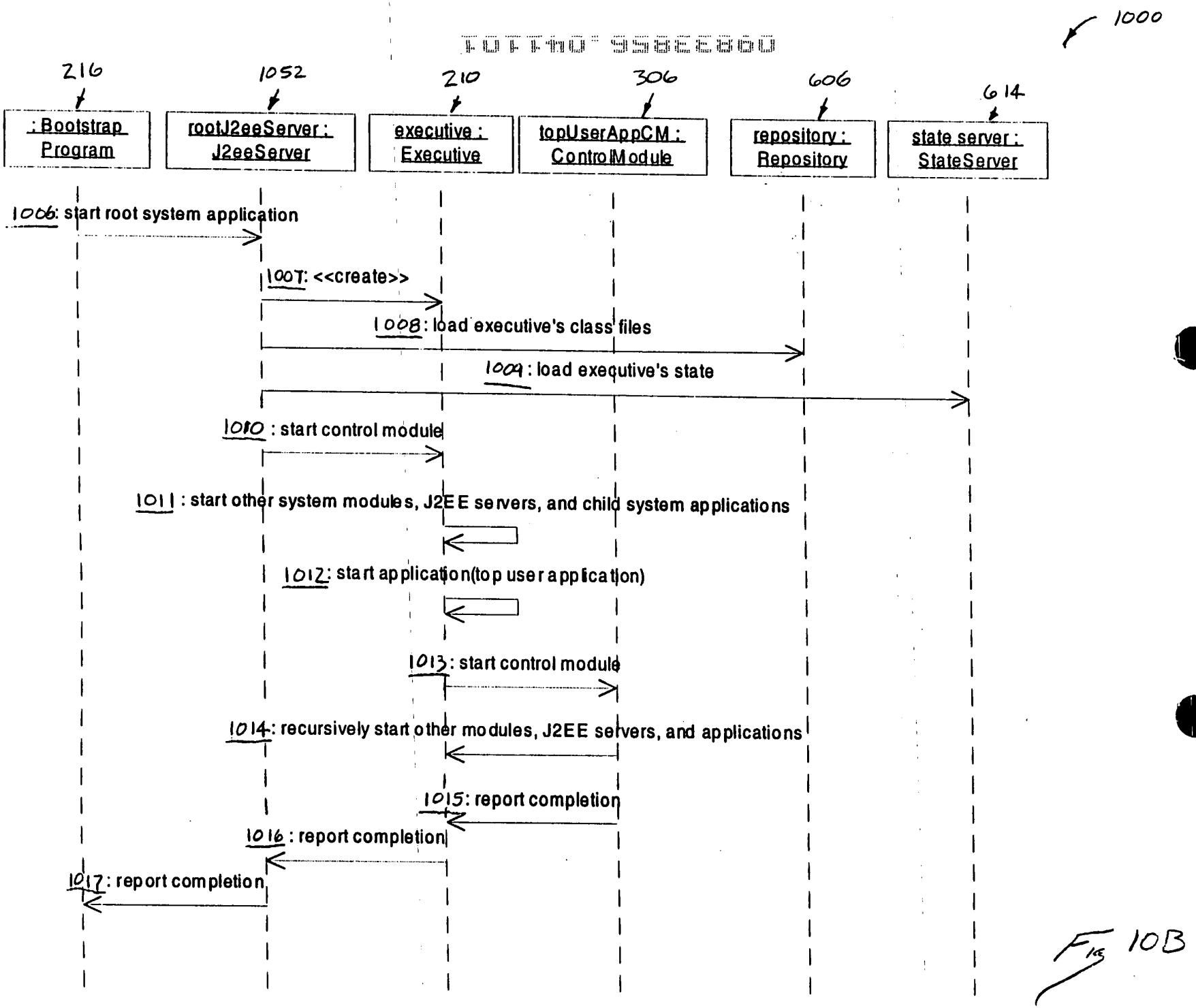

Fig 10B

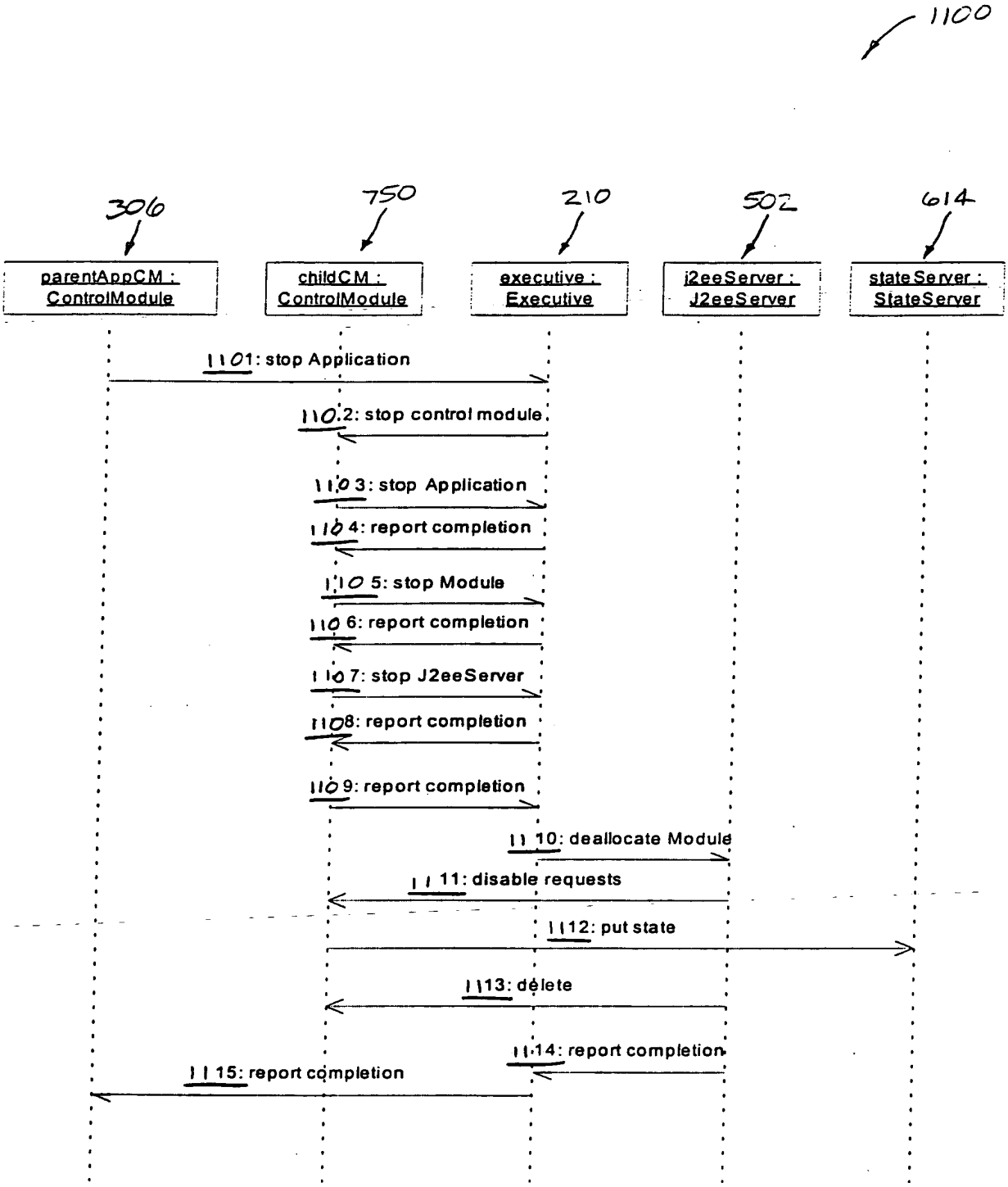
1100
306
750
210
502
614
parentAppCM : ControlModule
childCM : ControlModule
executive : Executive
j2eeServer : J2eeServer
stateServer : StateServer
1101: stop Application
1102: stop control module
1103: stop Application
1104: report completion
1105: stop Module
1106: report completion
1107: stop J2eeServer
1108: report completion
1109: report completion
1110: deallocate Module
1111: disable requests
1112: put state
1113: delete
1114: report completion
1115: report completion

FIG. 11

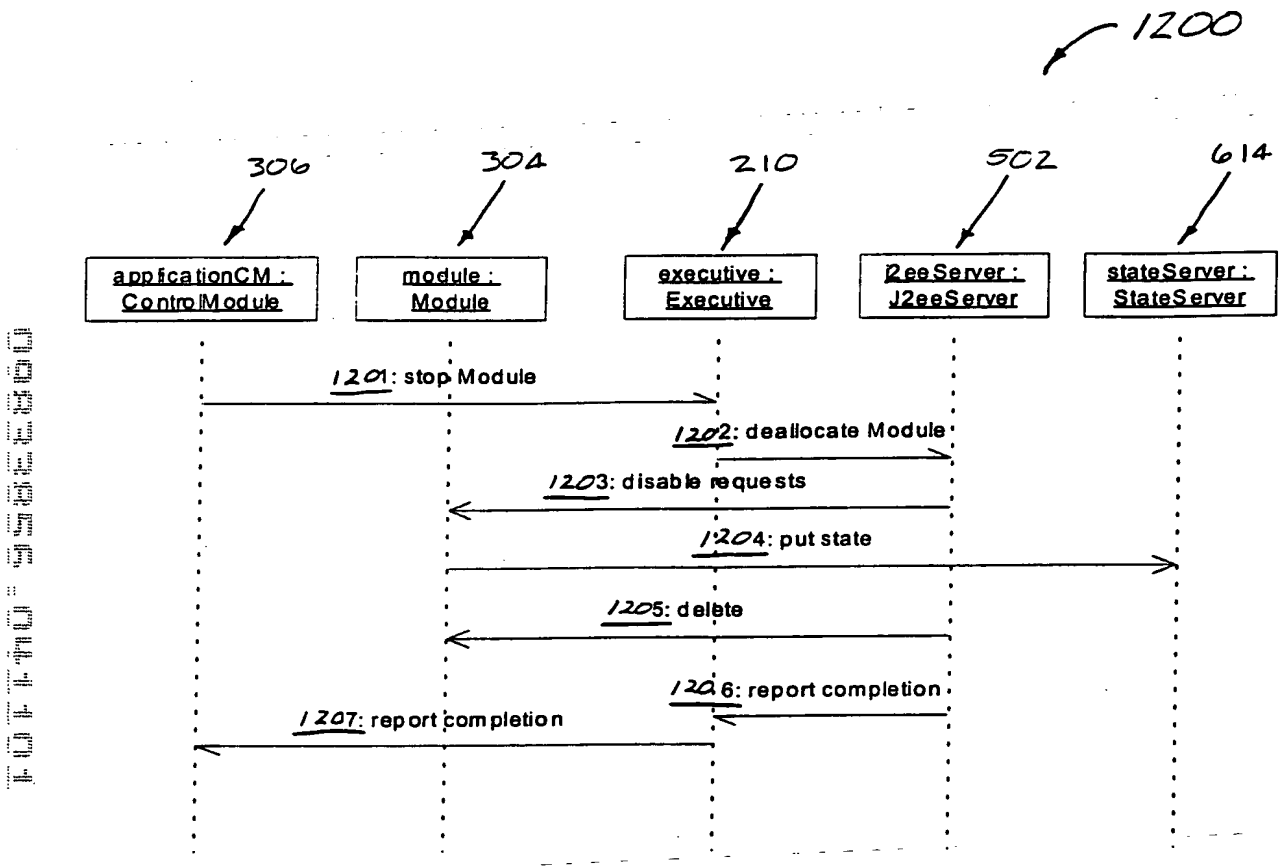
1200
306
304
210
502
614
applicationCM : ControlModule
module : Module
executive : Executive
J2eeServer : J2eeServer
stateServer : StateServer
1201: stop Module
1202: deallocate Module
1203: disable requests
1204: put state
1205: delete
1206: report completion
1207: report completion

Fig. 12

FOREIGN 95BEE80D

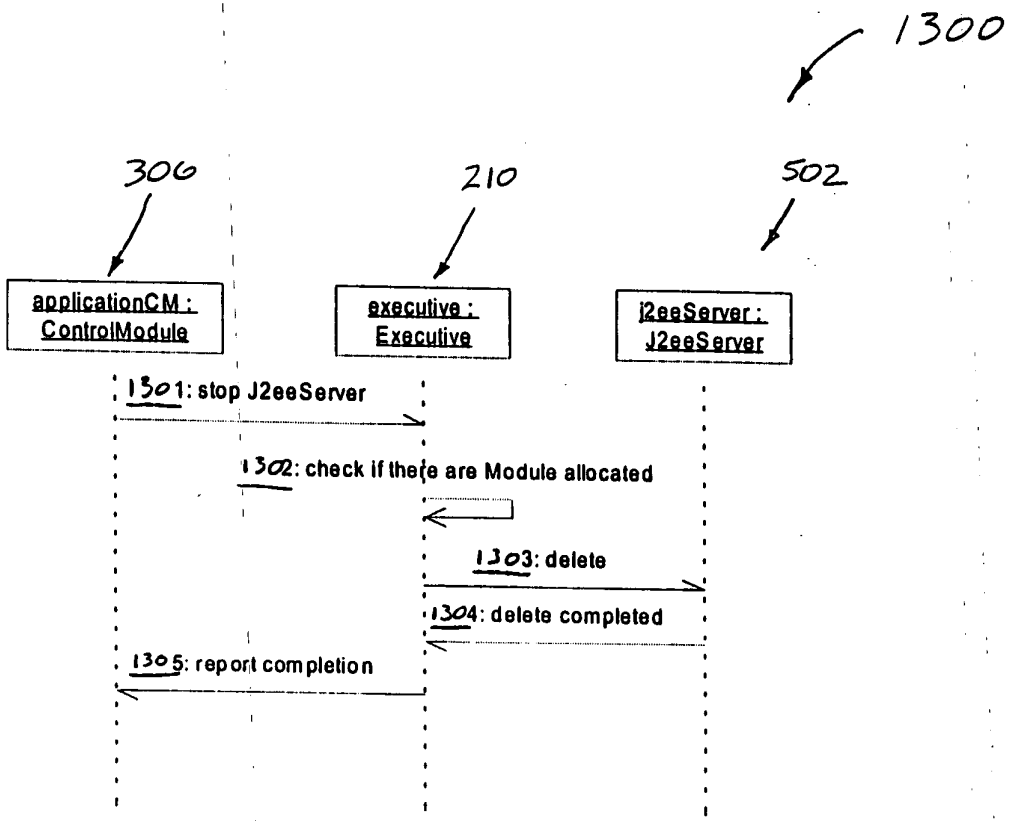

Fig. 13

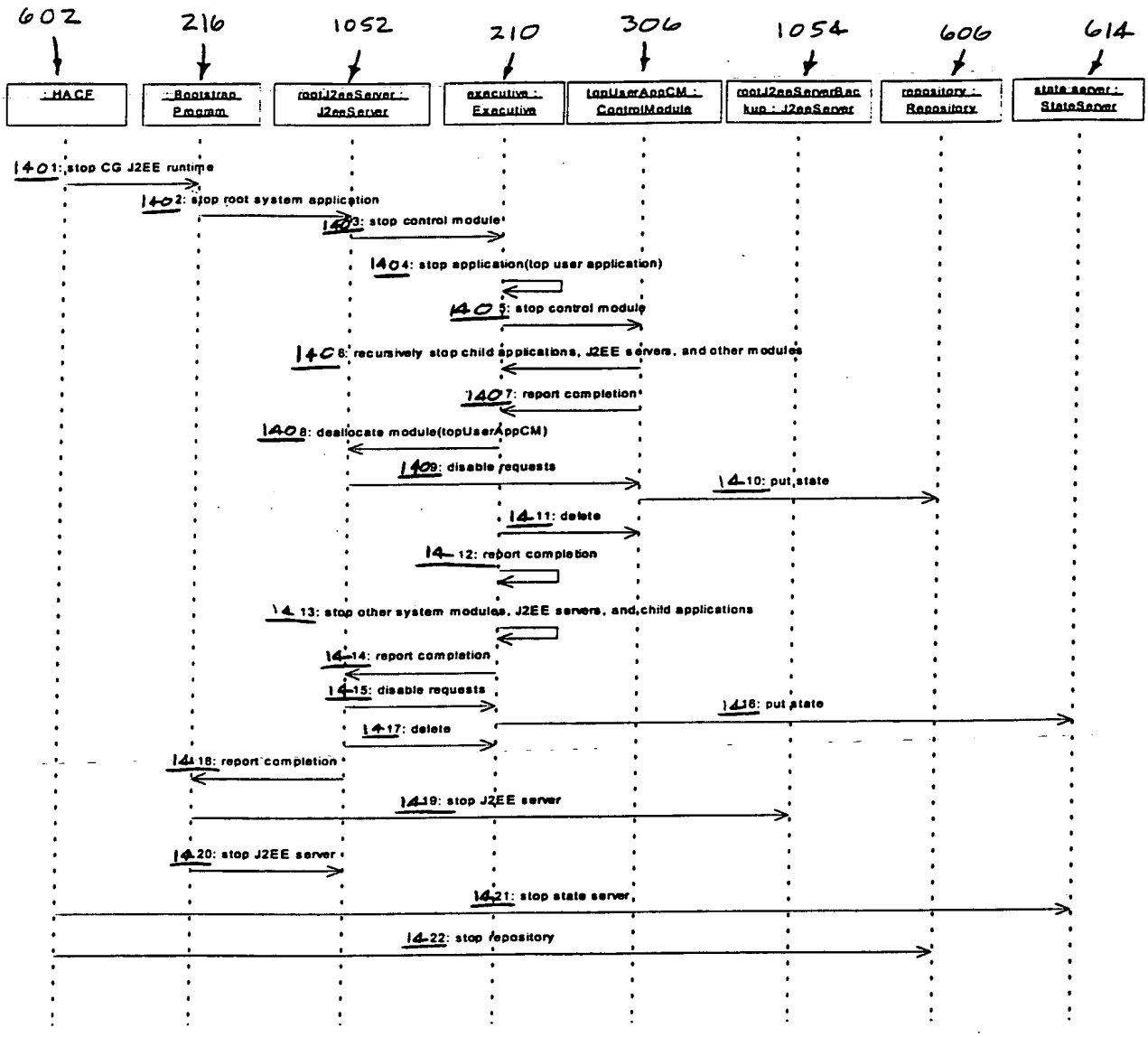
1400
602
216
1052
210
306
1054
606
614
: HACF
: Bootstrap Pmgmm
root:J2eeServer : J2eeServer
executive : Executive
topUserAppCM : ControlModule
root:J2eeServerBac kup : J2eeServer
repository : Repository
state server : StateServer
1401: stop CG J2EE runtime
1402: stop root system application
1403: stop control module
1404: stop application(top user application)
1405: stop control module
1406: recursively stop child applications, J2EE servers, and other modules
1407: report completion
1408: deallocate module(topUserAppCM)
1409: disable requests
1410: put state
1411: delete
1412: report completion
1413: stop other system modules, J2EE servers, and child applications
1414: report completion
1415: disable requests
1416: put state
1417: delete
1418: report completion
1419: stop J2EE server
1420: stop J2EE server
1421: stop state server
1422: stop repository

Fig. 14

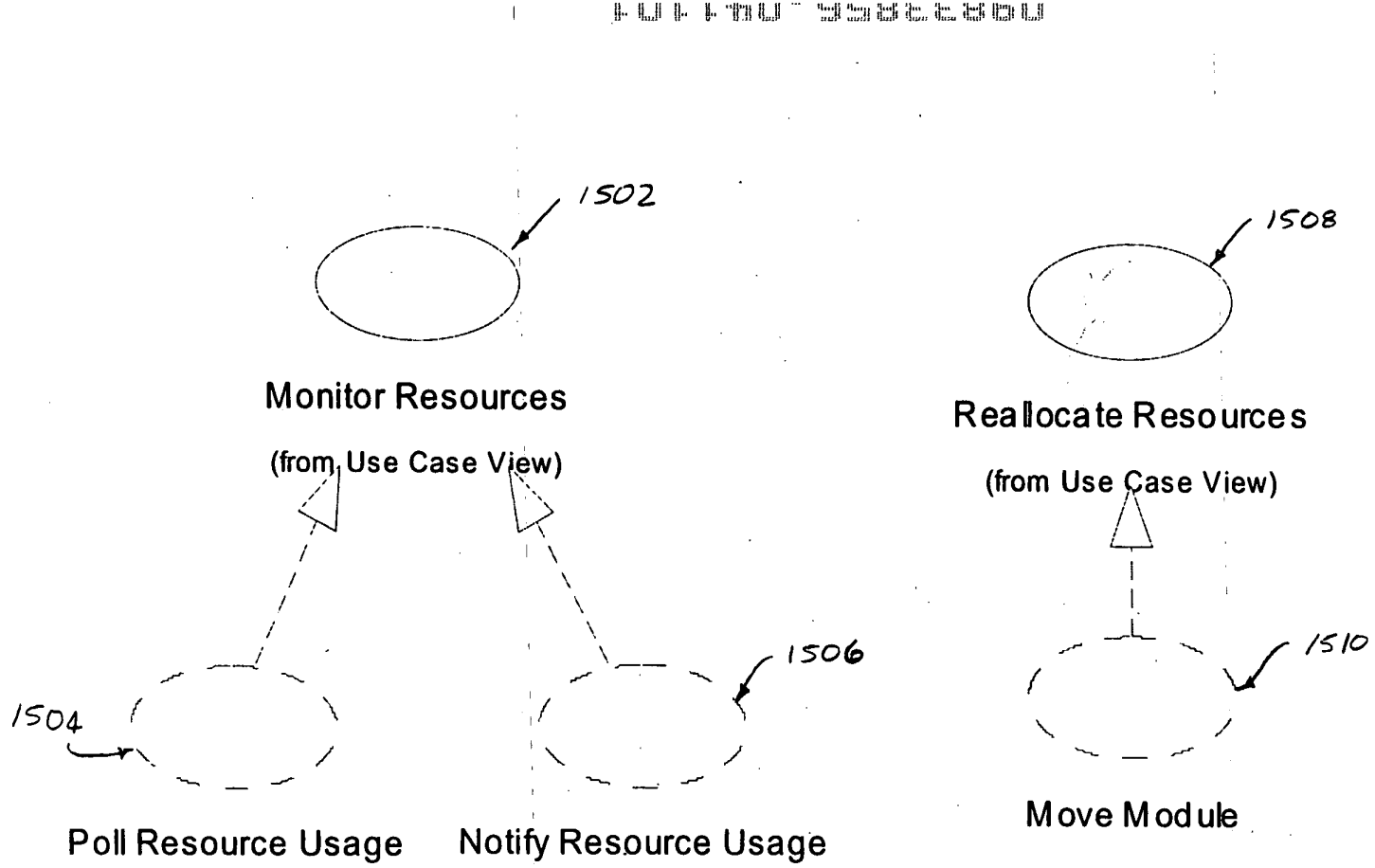
1500
1502
Monitor Resources
(from Use Case View)
1504
1506
Poll Resource Usage
Notify Resource Usage
1508
Reallocate Resources
(from Use Case View)
1510
Move Module

FIG 15

PUT PTO 95822600

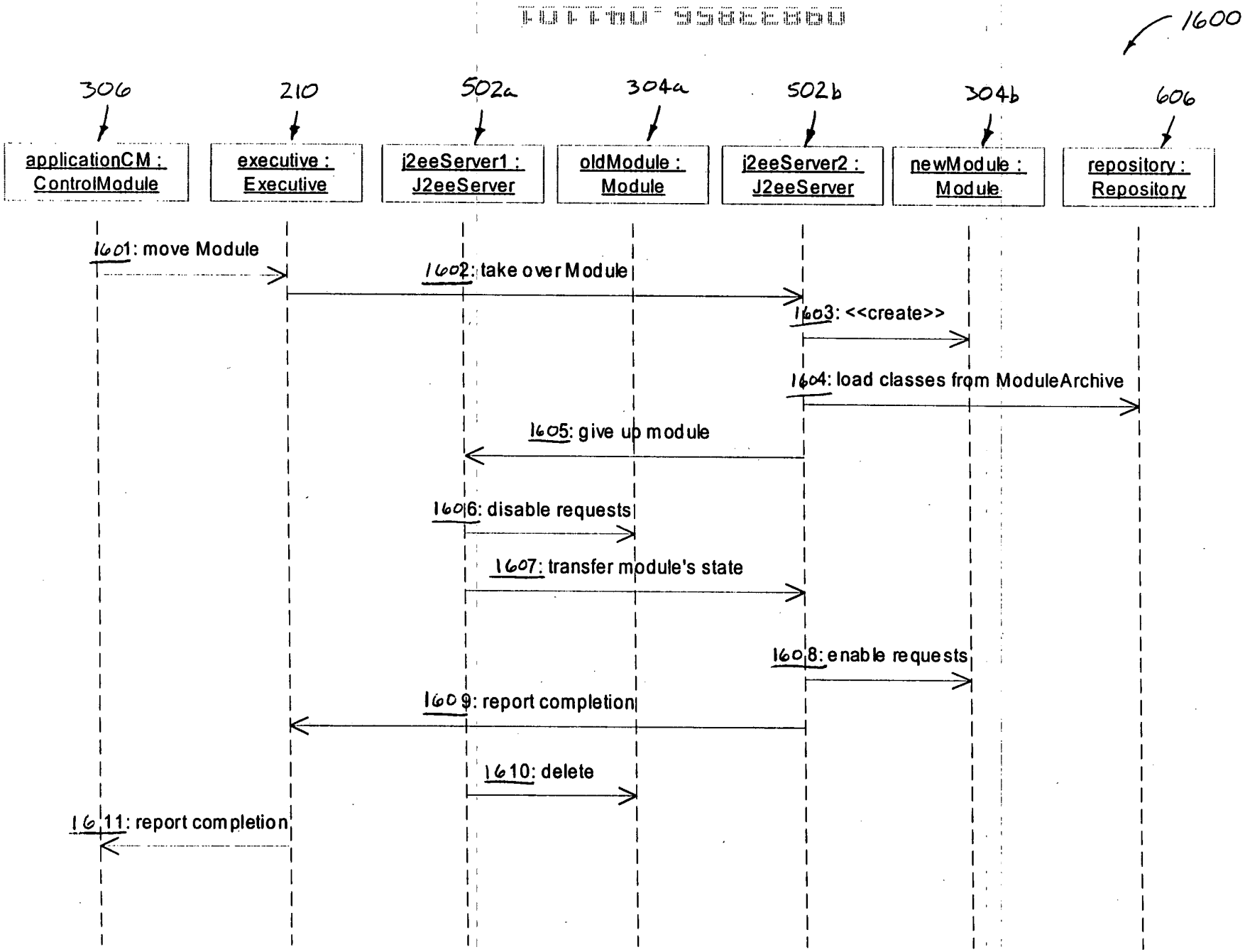

Fig. 16

FOTFNO 9582680

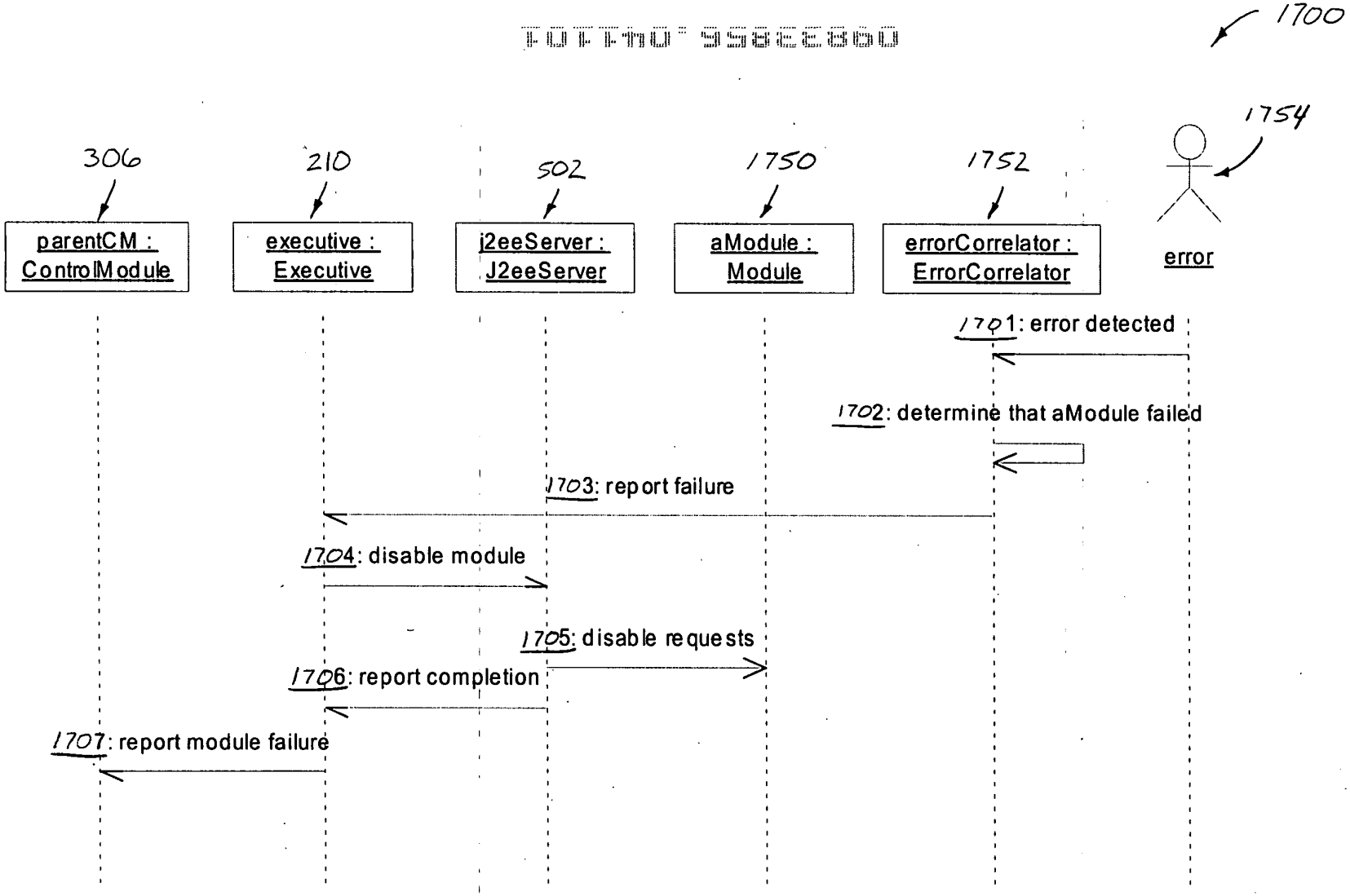

Fig 17

FOUND 95BEE860

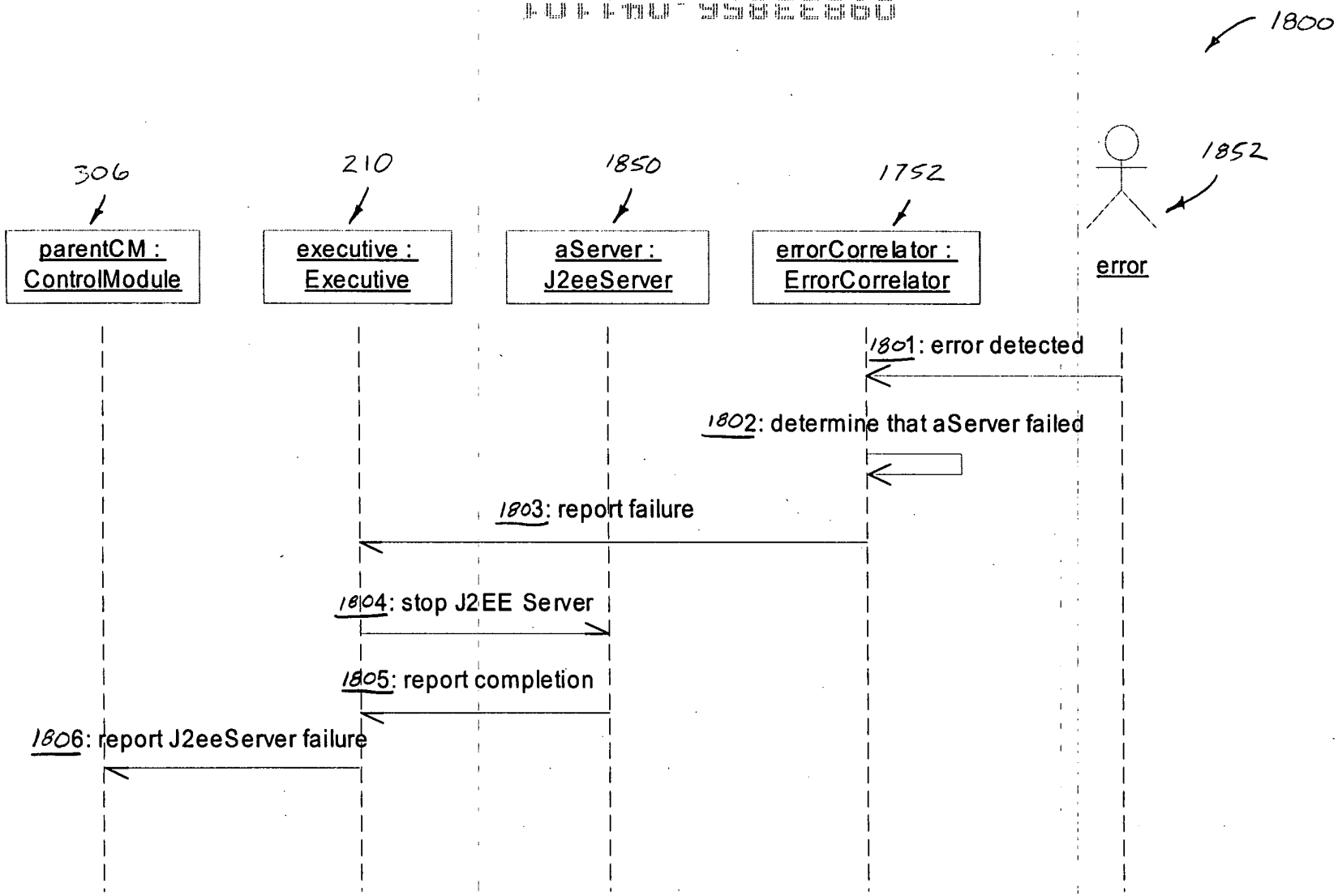

Fig. 18

FOUND 95862800

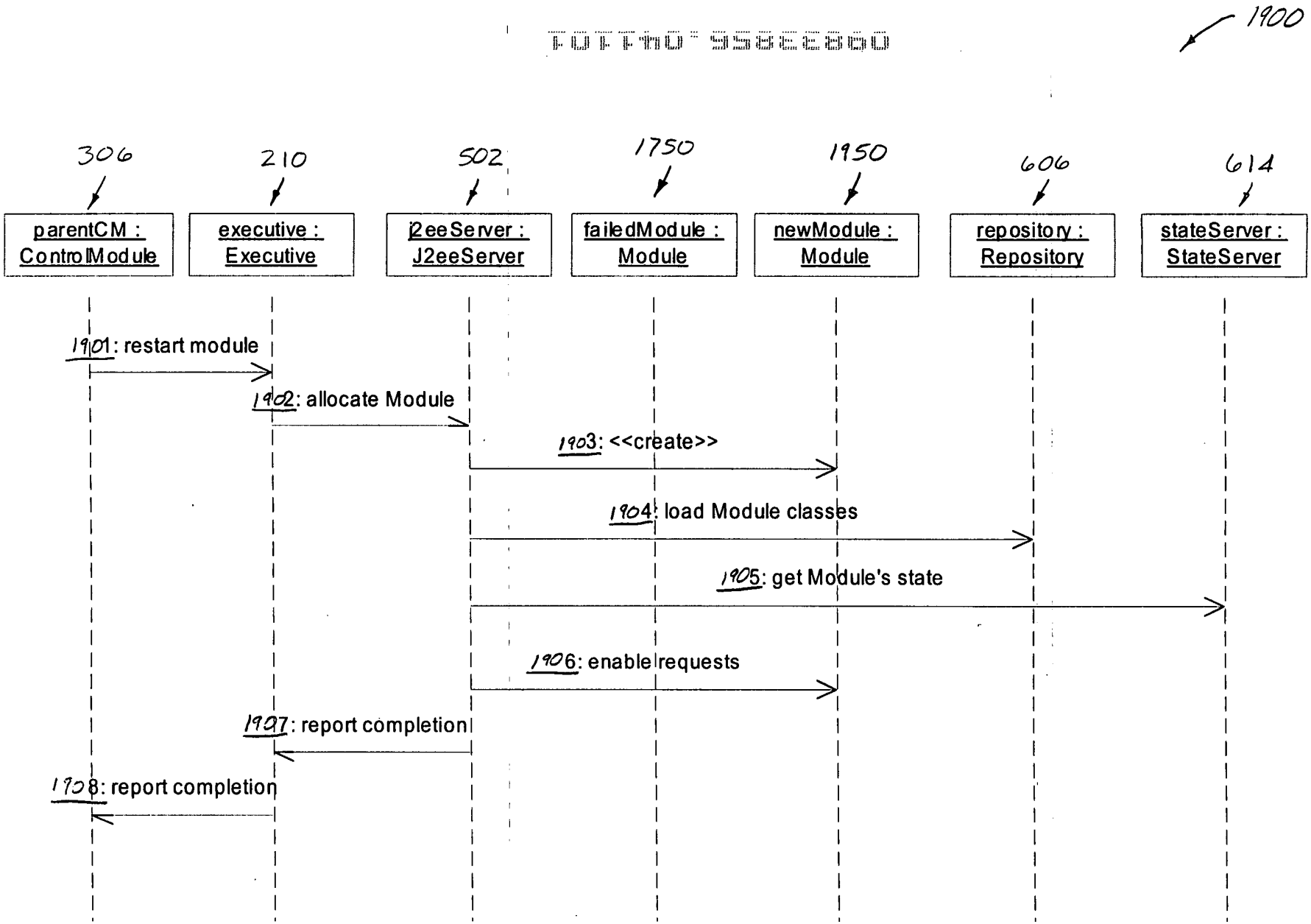

Fig. 19

FOREIGN SEARCH

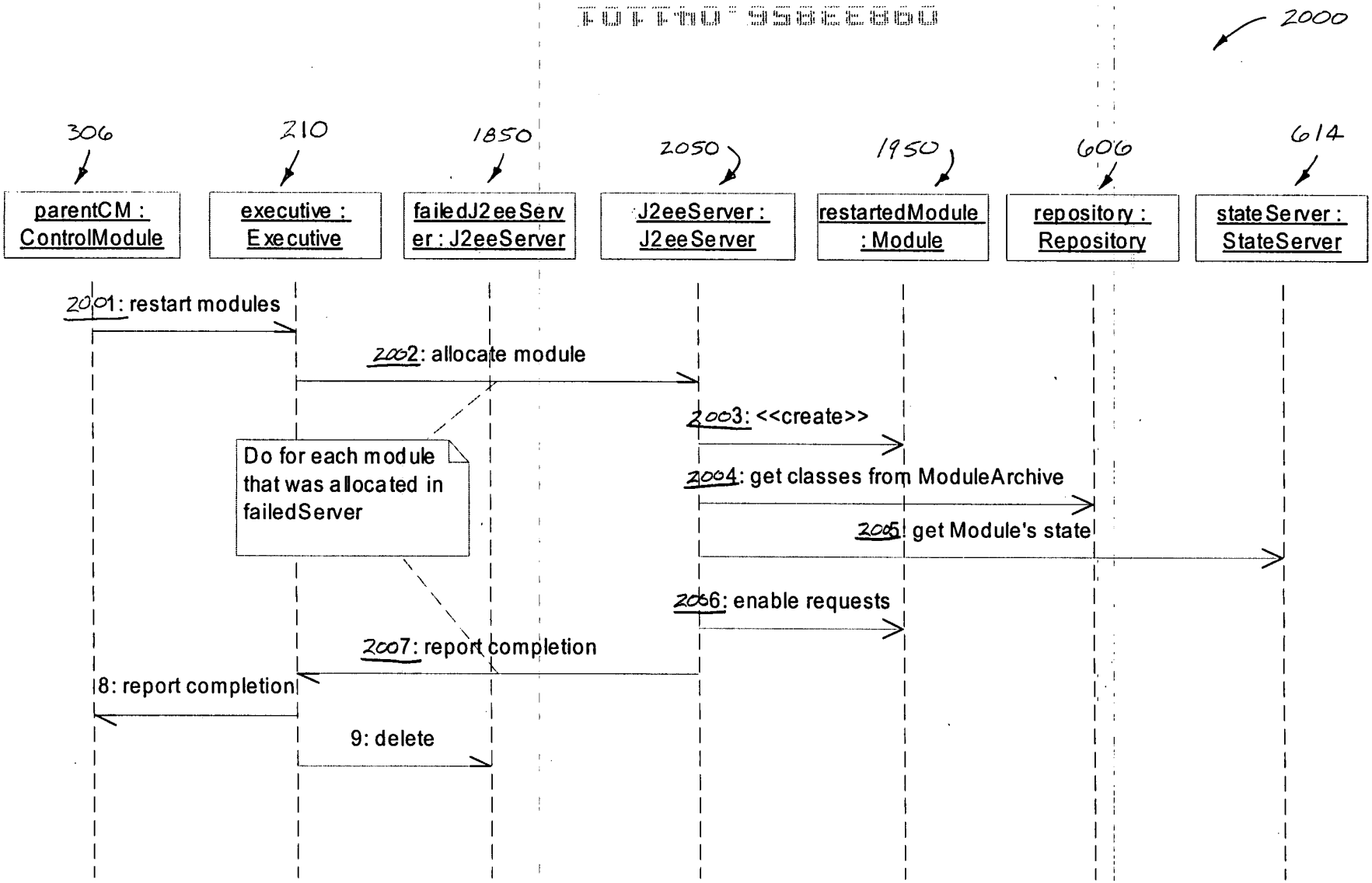

Fig. 20